

Name: \_\_\_\_\_

### p1029: Box multiplication of linear binomials (v4)

#### Example

Use the box method to multiply  $(6x + 3)$  and  $(2x + 4)$ .

*	$6x$	$3$	
$2x$	$12x^2$	$6x$	$12x^2 + 6x + 24x + 12$
$4$	$24x$	$12$	Combine like terms.
			$12x^2 + 30x + 12$

ANSWER:  $12x^2 + 30x + 12$

#### Question 1

Use the box method to multiply  $(9x + 4)$  and  $(8x + 7)$ .

*	$9x$	$4$	
$8x$	$72x^2$	$32x$	
$7$	$63x$	$28$	

ANSWER:  $72x^2 + 95x + 28$

### Question 2

Use the box method to multiply  $(8x - 5)$  and  $(4x + 6)$ .

*	$8x$	$-5$
$4x$	$32x^2$	$-20x$
$6$	$48x$	$-30$

ANSWER:  $32x^2 + 28x - 30$

### Question 3

Use the box method to multiply  $(7x - 9)$  and  $(-3x - 2)$ .

*	$7x$	$-9$
$-3x$	$-21x^2$	$27x$
$-2$	$-14x$	$18$

ANSWER:  $-21x^2 + 13x + 18$